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**DATE:** January 10, 2005**FILE:** Serial No. 09/608,639  
Attorney Docket No. Chen 1-18Facsimile Message From: **JOSEPH B. RYAN**

Please deliver the following pages to:

<b>NAME:</b> Examiner Cornelius H. Jackson
<b>OF:</b> U.S. Patent and Trademark Office
<b>FAX NUMBER:</b> (571) 273-1942
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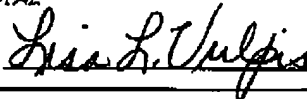
## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## Patent Application

Applicant(s): Y. Chen et al.  
Case: 1-18  
Serial No.: 09/608,639  
Filing Date: June 30, 2000  
Group: 2828  
Examiner: Cornelius H. Jackson

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Date: January 10, 2005

Title: System Comprising Optical  
Semiconductor Waveguide Device

LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

As per the request of Examiner Jackson, listed below are the pending claims of the above-identified application.

If any additional information is required, please contact the undersigned.

1. (Previously presented) An optical communication system comprising an external cavity laser that comprises:

a gain medium comprising an active region, the gain medium including an antireflective layer to prevent the laser from lasing off facets of the laser, the active region containing a quantum well to generate light, the quantum well having sides and cladding layers formed on the sides;

a tapered beam expanding region, optically coupled to the active region, the beam expanding region and being wider than the active region, the beam expanding region shaped to provide lateral broadening and vertical broadening or both;